RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/574,398 _____
Source: _____ IFWP _____
Date Processed by STIC: _____ 04/26/2006 _____

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/574,398

DATE: 04/26/2006
TIME: 07:32:52

Input Set : F:\5176.ST25.txt
Output Set: N:\CRF4\04262006\J574398.raw

```
 3 <110> APPLICANT: Bayer Pharamceuticals Corporation
 4        Pauloski, Nicole
 5        Taylor, Ian
 6        Bigwood, Douglas
 8 <120> TITLE OF INVENTION: GENE EXPRESSION PROFILES AND METHODS OF USE
10 <130> FILE REFERENCE: 5176
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/574,398
C--> 12 <141> CURRENT FILING DATE: 2006-03-31
12 <150> PRIOR APPLICATION NUMBER: PCT/US04/34163
13 <151> PRIOR FILING DATE: 2004-10-01
15 <150> PRIOR APPLICATION NUMBER: US 60/508,355
16 <151> PRIOR FILING DATE: 2003-10-03
18 <160> NUMBER OF SEQ ID NOS: 400
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1863
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 gggggccaaa gggaagtgct gcgaggttta caaccagctg cagtggttcg atgggaagga     60
30 tctttctcca agtggttcct cttgagggga gcatttctgc tggctccagg actttggcca    120
32 tctataaagc ttggcaatga gaaataagaa aattctcaag gaggacgagc tcttgagtga    180
34 gacccaacaa gctgcttttc accaaattgc aatggagcct ttcgaaatca atgttccaaa    240
36 gcccaagagg agaaatgggg tgaacttctc cctagctgtg gtggtcatct acctgatcct    300
38 gctcaccgct ggcgctgggc tgctggtggt ccaagttctg aatctgcagg cgcggctccg    360
40 ggtcctggag atgtatttcc tcaatgacac tctggcggct gaggacagcc cgtccttctc    420
42 cttgctgcag tcagcacacc ctggagaaca cctggctcag ggtgcatcga ggctgcaagt    480
44 cctgcaggcc caactcacct gggtccgcgt cagccatgag cacttgctgc agcgggtaga    540
46 caacttcact cagaacccag ggatgttcag aatcaaaggt gaacaaggcg ccccaggtct    600
48 tcaaggccac aagggggcca tgggcatgcc tggtgcccct ggcccgccgg gaccacctgc    660
50 tgagaaggga gccaggggg ctatgggacg agatggagca acaggcccct cgggacccca    720
52 aggcccaccg ggagtcaagg gagaggcggg cctccaagga ccccagggtg ctccagggaa    780
54 gcaaggagcc actggcaccc caggacccca aggagagaag ggcagcaaag gcgatggggg    840
56 tctcattggc ccaaaagggg aaactggaac taagggagag aaaggagacc tgggtctccc    900
58 aggaagcaaa ggggacaggg gcatgaaagg agatgcaggg gtcatgggc ctcctggagc    960
60 ccaggggagt aaaggtgact tcgggaggcc aggcccacca ggtttggctg gttttcctgg   1020
62 agctaaagga gatcaaggac aacctggact gcaggtgtt ccgggccctc ctggtgcagt   1080
64 gggacaccca ggtgccaagg gtgagcctgg cagtgctggc tcccctgggc gagcaggact   1140
66 tccagggagc cccgggagtc caggagccac aggcctgaaa ggaagcaaag gggacacagg   1200
68 acttcaagga cagcaaggaa gaaaaggaga atcaggagtt ccaggccctg caggtgtgaa   1260
70 gggagaacag gggagcccag ggctggcagg tcccaaggga gccctggac aagctggcca   1320
72 gaagggagac cagggagtga aaggatcttc tggggagcaa ggagtaaagg gagaaaaagg   1380
74 tgaaagaggt gaaaactcag tgtccgtcag gattgtcggc agtagtaacc gaggccgggc   1440
```

```
 76 tgaagtttac tacagtggta cctgggggac aatttgcgat gacgagtggc aaaattctga   1500
 78 tgccattgtc ttctgccgca tgctgggtta ctccaaagga agggccctgt acaaagtggg   1560
 80 agctggcact gggcagatct ggctggataa tgttcagtgt cggggcacgg agagtaccct   1620
 82 gtggagctgc accaagaata gctggggcca tcatgactgc agccacgagg aggacgcagg   1680
 84 cgtggagtgc agcgtctgac ccggaaaccc tttcacttct ctgctcccga ggtgtcctcg   1740
 86 ggctcatatg tgggaaggca gaggatctct gaggagttcc ctggggacaa ctgagcagcc   1800
 88 tctggagagg ggccattaat aaagctcaac atcaaaaaaa aaaagaaaa aaaaaaaaa    1860
 90 aaa                                                                  1863
 93 <210> SEQ ID NO: 2
 94 <211> LENGTH: 520
 95 <212> TYPE: PRT
 96 <213> ORGANISM: homo sapiens
 98 <400> SEQUENCE: 2
100 Met Arg Asn Lys Lys Ile Leu Lys Glu Asp Glu Leu Leu Ser Glu Thr
101 1               5                   10                  15
104 Gln Gln Ala Ala Phe His Gln Ile Ala Met Glu Pro Phe Glu Ile Asn
105             20                  25                  30
108 Val Pro Lys Pro Lys Arg Arg Asn Gly Val Asn Phe Ser Leu Ala Val
109         35                  40      ·           45
112 Val Val Ile Tyr Leu Ile Leu Leu Thr Ala Gly Ala Gly Leu Leu Val
113     50                  55                  60
116 Val Gln Val Leu Asn Leu Gln Ala Arg Leu Arg Val Leu Glu Met Tyr
117 65                  70                  75                  80
120 Phe Leu Asn Asp Thr Leu Ala Ala Glu Asp Ser Pro Ser Phe Ser Leu
121             85                  90                  95
124 Leu Gln Ser Ala His Pro Gly Glu His Leu Ala Gln Gly Ala Ser Arg
125             100                 105                 110
128 Leu Gln Val Leu Gln Ala Gln Leu Thr Trp Val Arg Val Ser His Glu
129         115                 120                 125
132 His Leu Leu Gln Arg Val Asp Asn Phe Thr Gln Asn Pro Gly Met Phe
133     130                 135                 140
136 Arg Ile Lys Gly Glu Gln Gly Ala Pro Gly Leu Gln Gly His Lys Gly
137 145                 150                 155                 160
140 Ala Met Gly Met Pro Gly Ala Pro Gly Pro Gly Pro Pro Ala Glu
141                 165                 170                 175
144 Lys Gly Ala Lys Gly Ala Met Gly Arg Asp Gly Ala Thr Gly Pro Ser
145             180                 185                 190
148 Gly Pro Gln Gly Pro Pro Gly Val Lys Gly Glu Ala Gly Leu Gln Gly
149         195                 200                 205
152 Pro Gln Gly Ala Pro Gly Lys Gln Gly Ala Thr Gly Thr Pro Gly Pro
153     210                 215                 220
156 Gln Gly Glu Lys Gly Ser Lys Gly Asp Gly Gly Leu Ile Gly Pro Lys
157 225                 230                 235                 240
160 Gly·Glu Thr Gly Thr Lys Gly Glu Lys Gly Asp Leu Gly Leu Pro Gly
161             245                 250                 255
164 Ser Lys Gly Asp Arg Gly Met Lys Gly Asp Ala Gly Val Met Gly Pro
165             260                 265                 270
168 Pro Gly Ala Gln Gly Ser Lys Gly Asp Phe Gly Arg Pro Gly Pro Pro
169             275                 280                 285
```

```
172 Gly Leu Ala Gly Phe Pro Gly Ala Lys Gly Asp Gln Gly Gln Pro Gly
173     290             295             300
176 Leu Gln Gly Val Pro Gly Pro Pro Gly Ala Val Gly His Pro Gly Ala
177 305             310             315             320
180 Lys Gly Glu Pro Gly Ser Ala Gly Ser Pro Gly Arg Ala Gly Leu Pro
181             325             330             335
184 Gly Ser Pro Gly Ser Pro Gly Ala Thr Gly Leu Lys Gly Ser Lys Gly
185             340             345             350
188 Asp Thr Gly Leu Gln Gly Gln Gln Gly Arg Lys Gly Glu Ser Gly Val
189         355             360      .      365
192 Pro Gly Pro Ala Gly Val Lys Gly Glu Gln Gly Ser Pro Gly Leu Ala
193         370             375             380
196 Gly Pro Lys Gly Ala Pro Gly Gln Ala Gly Gln Lys Gly Asp Gln Gly
197 385             390             395             400
200 Val Lys Gly Ser Ser Gly Glu Gln Gly Val Lys Gly Glu Lys Gly Glu
201             405             410             415
204 Arg Gly Glu Asn Ser Val Ser Val Arg Ile Val Gly Ser Ser Asn Arg
205             420             425             430
208 Gly Arg Ala Glu Val Tyr Tyr Ser Gly Thr Trp Gly Thr Ile Cys Asp
209         435             440             445
212 Asp Glu Trp Gln Asn Ser Asp Ala Ile Val Phe Cys Arg Met Leu Gly
213         450             455             460
216 Tyr Ser Lys Gly Arg Ala Leu Tyr Lys Val Gly Ala Gly Thr Gly Gln
217 465             470             475             480
220 Ile Trp Leu Asp Asn Val Gln Cys Arg Gly Thr Glu Ser Thr Leu Trp
221             485             490             495
224 Ser Cys Thr Lys Asn Ser Trp Gly His His Asp Cys Ser His Glu Glu
225             500             505             510
228 Asp Ala Gly Val Glu Cys Ser Val
229         515             520
232 <210> SEQ ID NO: 3
233 <211> LENGTH: 816
234 <212> TYPE: DNA
235 <213> ORGANISM: Homo sapiens
238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (293)..(293)
241 <223> OTHER INFORMATION: n is a, c, g, or t
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (509)..(509)
246 <223> OTHER INFORMATION: n is a, c, g, or t
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (534)..(534)
251 <223> OTHER INFORMATION: n is a, c, g, or t
253 <220> FEATURE:
254 <221> NAME/KEY: misc_feature
255 <222> LOCATION: (624)..(624)
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/574,398

DATE: 04/26/2006
TIME: 07:32:52

Input Set : **F:\5176.ST25.txt**
Output Set: **N:\CRF4\04262006\J574398.raw**

```
256 <223> OTHER INFORMATION: n is a, c, g, or t
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (657)..(657)
261 <223> OTHER INFORMATION: n is a, c, g, or t
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (671)..(671)
266 <223> OTHER INFORMATION: n is a, c, g, or t
268 <400> SEQUENCE: 3
269       ttttgctaaa catttttta agtatgagtc cttgtttaaa aagaaaagat taaaacagaa      60
271       aatattttct ataaataata catgtatttt ggttttagtg ctcccgccct aaggtttgaa     120
273       gtttactttt atccagtacc tttttcctcc atgatcacct tttttttctct ttcccctctc    180
275       ccactcgtgc acacgtgggg gtttctgcga gaattggcct tgctgcactg tgattggcga      240
W-->  277  agacgtgaaa cttttaaaa aaaatactta aaattggttc ttttgtttca ttntgtgtat       300
279       ttgaagtttt agttatcctc agactcctct tctgcttccc gcagccacgt gaagaatgcc      360
281       gtgacagatt tcagagccac gcccttccca ttctgctctg cagggtcctt gctgctctcc      420
283       catttgtaga aggcatcctc ggagatcacc tcctcgtcat atagacaatc aaaaaacatc      480
W-->  285  cgcagcacat tggcaggttg atcaagttnt actatcgatg cttgtagtgc atanagtgct       540
287       tgcagttcct tctctgtatc tgagtctagg tacttgagta agatcggcac tctctgcttg      600
W-->  289  ataacagcag tgtccactct gaangtagaa gagtcggcta taatagctgc tttacanaca       660
W-->  291  gcagtcatta nagctctaac gaatgtagtg aactcatctg gatttcgtct agattagcct       720
293       ctacccagtc aaagatctgt catcattcgc tttgctctca attatgagtt tctcgagttg      780
295       cttatgcagg tcttccgcag acaagtcttt ctttga                               816
298 <210> SEQ ID NO: 4
299 <211> LENGTH: 1585
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
303 <400> SEQUENCE: 4
305 Met Asn Ser Gln Pro Gln Thr Arg Ser Pro Phe Phe Gln Arg Pro Gln
306 1               5                   10                  15
309 Ile Gln Pro Pro Arg Ala Thr Ile Pro Asn Ser Ser Pro Ser Ile Arg
310             20                  25                  30
313 Pro Gly Ala Gln Thr Pro Thr Ala Val Tyr Gln Ala Asn Gln His Ile
314         35                  40                  45
317 Met Met Val Asn His Leu Pro Met Pro Tyr Pro Val Pro Gln Gly Pro
318     50                  55                  60
321 Gln Tyr Cys Ile Pro Gln Tyr Arg His Ser Gly Pro Pro Tyr Val Gly
322 65                  70                  75                  80
325 Pro Pro Gln Gln Tyr Pro Val Gln Pro Pro Gly Pro Gly Pro Phe Tyr
326                 85                  90                  95
329 Pro Gly Pro Gly Pro Gly Asp Phe Pro Asn Ala Tyr Gly Thr Pro Phe
330             100                 105                 110
333 Tyr Pro Ser Gln Pro Val Tyr Gln Ser Ala Pro Ile Ile Val Pro Thr
334         115                 120                 125
337 Gln Gln Gln Pro Pro Pro Ala Lys Arg Glu Lys Lys Thr Ile Arg Ile
338     130                 135                 140
341 Arg Asp Pro Asn Gln Gly Gly Lys Asp Ile Thr Glu Glu Ile Met Ser
342 145                 150                 155                 160
```

```
345 Gly Gly Gly Ser Arg Asn Pro Thr Pro Pro Ile Gly Arg Pro Thr Ser
346                 165                 170             175
349 Thr Pro Thr Pro Pro Gln Gln Leu Pro Ser Gln Val Pro Glu His Ser
350             180             185             190
353 Pro Val Val Tyr Gly Thr Val Glu Ser Ala His Leu Ala Ala Ser Thr
354         195             200             205
357 Pro Val Thr Ala Ala Ser Asp Gln Lys Gln Glu Glu Lys Pro Lys Pro
358     210             215             220
361 Asp Pro Val Leu Lys Ser Pro Ser Pro Val Leu Arg Leu Val Leu Ser
362 225             230             235             240
365 Gly Glu Lys Lys Glu Gln Glu Gly Gln Thr Ser Glu Thr Thr Ala Ile
366             245             250             255
369 Val Ser Ile Ala Glu Leu Pro Leu Pro Pro Ser Pro Thr Thr Val Ser
370             260             265             270
373 Ser Val Ala Arg Ser Thr Ile Ala Ala Pro Thr Ser Ser Ala Leu Ser
374         275             280             285
377 Ser Gln Pro Ile Phe Thr Thr Ala Ile Asp Asp Arg Cys Glu Leu Ser
378     290             295             300
381 Ser Pro Arg Glu Asp Thr Ile Pro Ile Pro Ser Leu Thr Ser Cys Thr
382 305             310             315             320
385 Glu Thr Ser Asp Pro Leu Pro Thr Asn Glu Asn Asp Asp Asp Ile Cys
386             325             330             335
389 Lys Lys Pro Cys Ser Val Ala Pro Asn Asp Ile Pro Leu Val Ser Ser
390             340             345             350
393 Thr Asn Leu Ile Asn Glu Ile Asn Gly Val Ser Glu Lys Leu Ser Ala
394         355             360             365
397 Thr Glu Ser Ile Val Glu Ile Val Lys Gln Glu Val Leu Pro Leu Thr
398     370             375             380
401 Leu Glu Leu Glu Ile Leu Glu Asn Pro Pro Glu Glu Met Lys Leu Glu
402 385             390             395             400
405 Cys Ile Pro Ala Pro Ile Thr Pro Ser Thr Val Pro Ser Phe Pro Pro
406             405             410             415
409 Thr Pro Pro Thr Pro Pro Ala Ser Pro Pro His Thr Pro Val Ile Val
410             420             425             430
413 Pro Ala Ala Ala Thr Thr Val Ser Ser Pro Ser Ala Ala Ile Thr Val
414         435             440             445
417 Gln Arg Val Leu Glu Glu Asp Glu Ser Ile Arg Thr Cys Leu Ser Glu
418     450             455             460
421 Asp Ala Lys Glu Ile Gln Asn Lys Ile Glu Val Glu Ala Asp Gly Gln
422 465             470             475             480
425 Thr Glu Glu Ile Leu Asp Ser Gln Asn Leu Asn Ser Arg Arg Ser Pro
426             485             490             495
429 Val Pro Ala Gln Ile Ala Ile Thr Val Pro Lys Thr Trp Lys Lys Pro
430             500             505             510
433 Lys Asp Arg Thr Arg Thr Thr Glu Glu Met Leu Glu Ala Glu Leu Glu
434             515             520             525
437 Leu Lys Ala Glu Glu Glu Leu Ser Ile Asp Lys Val Leu Glu Ser Glu
438     530             535             540
441 Gln Asp Lys Met Ser Gln Gly Phe His Pro Glu Arg Asp Pro Ser Asp
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/26/2006
PATENT APPLICATION: US/10/574,398   TIME: 07:32:53

Input Set : F:\5176.ST25.txt
Output Set: N:\CRF4\04262006\J574398.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 293,509,534,624,657,671
Seq#:7; N Pos. 377
Seq#:13; N Pos. 508,524,532,585
Seq#:27; N Pos. 106,220,434
Seq#:41; N Pos. 1536
Seq#:43; N Pos. 34,115,321,356,359,378,385,394
Seq#:44; Xaa Pos. 12,39,107,119,120,129,132
Seq#:47; N Pos. 1871,1880,2479,2899
Seq#:48; Xaa Pos. 624,627,827,967
Seq#:65; N Pos. 477
Seq#:86; N Pos. 467,481,508,529,559
Seq#:88; N Pos. 305
Seq#:98; N Pos. 528,569,606
Seq#:106; N Pos. 639
Seq#:112; N Pos. 611,730,798,800
Seq#:142; N Pos. 464
Seq#:150; N Pos. 276,343,359,364,398,405,409
Seq#:152; N Pos. 179,203,503,505,506,508,568,627,629,680,694,702
Seq#:154; N Pos. 147,428,534,566,572
Seq#:160; N Pos. 522
Seq#:164; N Pos. 282
Seq#:188; N Pos. 149,155,156,157,160,180,201,203,396,411,454,475,495,514
Seq#:188; N Pos. 521,530,553,564,579,586,607,613
Seq#:222; N Pos. 383,392,416,477,483,523,564,593,602,619,627
Seq#:226; N Pos. 395
Seq#:238; N Pos. 797
Seq#:294; N Pos. 545,571,588,593,656
Seq#:314; N Pos. 569
Seq#:326; N Pos. 622
Seq#:336; N Pos. 370,426,458,471,483,484,510,519,535,538
Seq#:344; N Pos. 572,687
Seq#:361; N Pos. 47,271,290,333,359,466,467,582,655,669,895

VERIFICATION SUMMARY　　　　　　　　DATE: 04/26/2006
PATENT APPLICATION:　**US/10/574,398**　　TIME: 07:32:53

Input Set : **F:\5176.ST25.txt**
Output Set: **N:\CRF4\04262006\J574398.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:240
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:480
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:600
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:660
L:1067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
L:1808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:480
L:1810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:540
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60
L:3852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:180
L:3860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
L:5704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:1500
L:5829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:5831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:60
L:5839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:300
L:5841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:360
L:5884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:5892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:32
L:5908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:96
L:5912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:112
L:5916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:128
L:6147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:1860
L:6167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:2460
L:6181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:2880
L:6378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:608
L:6382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:624
L:6430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:816
L:6466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:960
L:9048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:420
L:13011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:420
L:13013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:480
L:13015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:540
L:13127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:300
L:13975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:480
L:13977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:540
L:13979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:600
L:16229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:600
L:16510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:600
L:16514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:720
L:16516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:780
L:19326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:420
L:19922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:240
L:19924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:300
L:19926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:360
L:20084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:120
L:20086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:180
L:20096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:480
```

```
L:20098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:540
L:20100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:600
L:20102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:660
L:20404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:120
L:20414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:420
L:20416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:480
L:20418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:540
L:20826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:480
L:21296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:164 after pos.:240
L:24245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:120
L:24247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:180
L:24253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:360
L:24255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:420
L:24257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:480
L:24259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:540
L:24261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:600
L:27719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:360
L:27721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:420
L:27723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:480
L:27725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:540
L:27727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:600
L:28439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:360
L:30299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:780
L:39805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:540
L:39807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:600
L:42885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:314 after pos.:540
L:44337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:326 after pos.:600
L:45307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:360
L:45309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:420
L:45311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336 after pos.:480
L:45942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344 after pos.:540
L:45946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344 after pos.:660
L:47542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0
L:47550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:240
L:47552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:300
L:47556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:420
L:47560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:540
L:47562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:600
L:47564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:660
L:47570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:840
```